RECD JUN 30 1930 SCHEDULE Dept.

Lima Locomotive Works

Incorporated

LIMA, OHIO, U. S. A.

FIRE FILE

Locomotive Tender

CARD INDEX

Class 12 WHEEL 23500 GALLON Dept. SCHEDULE

CHESAPEAKE & OHIO.

ORDER No.	SHOP NUMBERS	DATE	DRAUGHTSMAN
C.O. 1122	7516-7555	6-30-1930	ALLISON
		19	
		19	
		19	
		19	

1122

FORM LED 32

ADDITIONS AND CHANGES

ADDITIONS TO BE MADE IN BLACK INK AND CHANGES IN RED INK

Index to Classification of Drawings

11 Axles
15 Bolts and Nuts—Studs, Pins and Bushings
17 Boxes, Truck—and Details.
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Clearances—See 98.
Coal Pusher—See 88.
Coupler—See 86.
35 Die Work—Flanging Dies.
Drawgear, Tender—See 86.
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Lamps—See 54.
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62 Pilot and Snow Plows.
63 Pipe Fittings and Clamps—Air, Steam, Water and Lubricator Pipe Fittings.
64 Piping Arrangements.
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82 Tank Valves—Oil and Water, Handles, Well, Goose Neck, Strainer, Hose and Cooler Cocks.
84 Tender Brake—Truck and Frame Brake.
85 Tender Frames—Front and Back Bumpers.
86 Tender Drawgear—Buffer, Chafing Plate, Coupler and Rigging, Drawhead F. and B.
87 Tender Deck, Tool Box, Water Cooler.
88 Tender Tank—Water and Oil, Coal Gate, Coal Pusher, Filling Hole and Tank Funnel.
89 Tender Truck, Bolster and Guides, Spring Seats and Plank.
90 Tender Water Scoop—Arrangements and Details.
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97 Preliminary Designs and Propositions.
98 Clearances and Wheel Base Diagrams.
99 Miscellaneous.

	Date	ITEMS	Check	Date	ITEMS	Check
397	7-7-30	5÷57	IC			
"	"	11÷35-36-37-38	K			
398	"	11÷39-40-51-52	K			
399	"	12÷51-52-53-54-55-56-57-58	IC			
400	"	13÷29-30	K			
429	7-14-30	13÷1-29-31-32	K			
430	"	6÷1-47-48-49-60	K			
"	"	12÷48-49	K			
"	"	5÷14	K			
431	"	7÷45-46-61	IC			
"	"	12÷4-5-8	IC			
"	"	4÷13	K			
432	"	5÷15-16-17-18-19-20-56-58	IK			
527	7-25-30	10÷1-22-23	K			
528	"	6÷51-53-59-60-61	IC			
"	"	3÷31	K			
"	"	6÷51-52	IC			
529	"	5÷28-29-30-31-32-33-34-40	IC			
530	"	4÷11-12-14-15-16-18	IC			
"	"	5÷9-10-11-12	IC			
531	"	12÷25-26-27-29	IC			
"	"	2÷33-34	IC			
532	"	12÷9-10-11-19-20-21-22-23	IC			
573	7-24-30	11÷53-54-55-57-58	K			
"	"	7÷54-55	IC			
592	7-31-30	12÷34-35	K			
593	"	4÷15	K			
596	"	13÷22-23	K			
615	8-4-30	7÷57	K			
627	8-6-30	4÷4	K			
628	" "	6÷53	IC			
630	" "	2÷27-34	IC			
639	8-7-30	2÷26-27	IC			
"	"	2÷28	IC			
652	8-9-30	12÷36	IC			
658	8-11-30	12÷38-39	IC			
659	" "	3÷36	IC			
670	8-13-30	11÷49	IC			
688	8-22-30	12÷19-20-21-22-23-25-26	K			
689	"	12÷27-29	IC			
690	"	5÷52	K			
"	"	4÷50-51-52-53-54-55-56	IC			
701	8-26-30	5÷35-36-37-42-43-44	IC			
"	"	10÷31	K			
"	"	12÷5-8	IC			
702	"	4÷15-16	IC			
708	8-27-30	12÷5-8	K			
714	8-29-30	4÷15-17	IK			
"	"	6÷54-55	IK			
"	"	5÷14-15-16-17	IK			
715	"	5÷18-19-20-37-44-56-58	IK			
716	"	10÷59	IK			
"	"	5÷29	IK			
"	"	6÷27-38-45	IK			
721	9-2-30	5÷46	IC			
731	9-5-30	12÷40	K			
743	9-26-30	5÷47-48	K			
744	"	5÷47-48	K			

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 11—AXLES								
1	1	Axle Ⓐ	6	112-A-194	7"x14" ORD	—	—	—	—	—
	2	"								
1	3	" Marking Ⓐ		112-A-206	—	—	—	—	—	—
	4									
	5									
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13	**GROUP 15—BOLTS AND NUTS**								
	14									
	15									
	16									
	17									
	18									
	19									
	20									
	21									
	22									
	23									
	24									
	25	**GROUP 17—BOXES, TRUCK**								
1	26	Box ~~+ Lid~~ Ⓐ	11	T.H. Symington Pt. P-138-1 ORD		—	—	—	—	—
1	27	" ~~Lid~~ WITH TRAIN CONTROL LUG Ⓐ	1	" "	Pt. P-354 R.S. ~~REAR~~ FRONT OF FRONT TRUCK			—	—	—
1	28	~~" " Pin~~ BOX LID Ⓐ	12	" "	PT-141-B					
	29	" " Spring								
1	30	" Journal Brass 7"x14" Ⓐ	12	A.R.A. N.B.M Co ORD		—	—	—	—	—
1	31	" " Wedge 7"x14" Ⓐ	12	" " DROP FORGED ORD		—	—	—	—	—
1	32	" Dust Guard 7"x14" Ⓐ	12	CHATON FIBRE #200 ORD		—	—	—	—	—
1	33	" COOLER HOSE LOCATION Ⓐ	11	172-A-153	END BOXES DRILLED TOWARD INSIDE MIDDLE " " " REAR					
1	34	" " " " FOR TRAIN CONTROL Ⓐ	1	172-C-153	DRILL TO XYARD ~~REAR~~					
	35									
	36									
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44									
	45	**GROUP 35—DIE WORK**								
	46									
	47									
	48									
	49									
	50									
	51									
	52									
	53									
	54									
	55									
	56									
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE		No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 49—GAUGES, TEMPLATES & JIGS									
	1										
	2										
	3										
	4										
	5										
	6										
	7										
	8										
	9										
	10										
	11										
	12										
	13										
	14										
	15										
	16										
	17										
	18										
	19										
	20										
	21	**GROUP 53—HANDRAIL AND STEPS**									
	22	Handrail									
	23	"									
	24	" Column									
	25	" "									
	26	" "									
	27	" Ball									
	28	" Flange									
	29	" "									
	30										
7	31	Bumper Handle	⊗	2	532-A-628		532-A-628				
	32	" "									
	33	Tank " FRONT	R L	1 1	532-D-548	—	532-D-548	(4) —	—	—	—
	34	" " REAR	R L	1 1	" "	—	532-D-548	(4) —	—	—	—
	35	" " ACROSS REAR		1	880-A-30	—	53-E-208	(1) —	—	—	—
✓	36	" " TOOLCLOSET DOOR		1	880-A-30	—	53-A-257	(4)			
	37										
	38										
	39										
	40										
	41										
	42										
7	43	Steps—Front	⊗ R L	1 1	532-D-623	—	532-D-623	(4) —	—	—	—
7	44	Front Step ~~Hanger~~ TREAD	⊗	4	532-C-623	—	532-C-623	(4) —	—	—	—
7	45	" " Brace	⊗	2	532-E-623	—	532-E-623	(4) —	—	—	—
7	46	Steps—Back	⊗	2	532-C-624	—	532-C-624	(4) —	—	—	—
7	47	Back Step ~~Hanger~~ TREAD	⊗	4	532-C-623	—	532-C-623	(4) —	—	—	—
7	48	" " Brace	⊗	2	532-D-624	—	532-D-624	(4) —	—	—	—
	49	Tank Step DECK		2	532-A-8	—	—	53-158 (1)	—	—	—
	50	" "									
16	51	Tank Ladder—Outside	⊗	1	532-B-554	—	532-B-554	(4) —	—	—	—
16	52	" " —Inside	⊗	1	532-A-614	—	532-A-614	(4) —	—	—	—
16	53	" " TOP OF TANK	⊗	1	532-C-614	—	532-C-614	(4) —	—	—	—
	54										
	55										
	56										
	57										
	58										
	59										
	60										
	61										

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 54—HEADLIGHTS AND SIGNAL ATTACHMENTS								
	1	Signal Fixtures—Location								
	2	Flag Socket								
	3	Marker Bracket								
8	4	Lamp Bracket ⊗	2	542-A-547	—	—	—	—	54-614	
	5	" Hook								
	6	Pail Hook								
	7	Headlight Bracket								
	8	" Shelf								
	9	BACK UP LAMP ✓	1		OLIVER TYPE, PYLE NAT# 2050		N.C.A. ORD	—	—	
	10	License Plate								
1	11	Ownership Plate ⊕	2	542-A-555	R+L. MIDWAY BET. TRUCK & TRS.				54-620	
1	12	~~NUMBER~~ PLATE " ⊕	1	5"x2"x¼" PLATE	C+O. STAMPED WITH NOS 1635 to 1654 INC. H.N. WITH STUD + LOCK		1665 to 1674 "	R.S. BET.-BOLSTERS		
	13	BACK UP LAMP LINERS	2	542-A-551	WASHER AS SHOWN					
	14	TENDER ELECTRIC WIRING		543-A-87	EXTRA CLAMPS + DRILLING TO SUIT E.S.					
	15	TENDER ELECTRIC WIRING & CONDUIT CLAMP ~~#~~ 87		543-A-87	MAT. ORD. EXTRA CLAMPS + DRILLING TO SUIT E.S.		MAT. ORD.	63-P-63		
16	16	" " " CONDUIT CLAMP ⊗	3	" "	U-BOLT			54-~~B~~ 34		
	17	STOKER LIGHT BRKT.	1	542-B-560	¾ PLATE					
8	18	CONDUIT BRKTS. ⊗	2	542-A-552	WITH STUDS					
	19									
	20									
	21	**GROUP 57—LAGGING AND JACKET**								
	22	Steam Pipe Lagging								
	23	" " "								
	24	" " Jacket								
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33	**GROUP 59—OIL AND GREASE CUPS**								
	34	Truck Oil Cup								
	35	" " " Cap								
	36									
	37	Stoker Oil Cup								
	38	" " " Cap								
	39									
	40									
	41									
	42									
	43									
	44									
	45									
	46									
	47									
	48									
	49	**GROUP 61—PA'TING, LET'RING & NUM'G**								
	50	COAL COPY ~~Tender Lettering~~		DIAGRAM	613-A-7		NUMBER			
	51	" "		NUMBERS	2		0 "			
	52	" "		1	5	ALL NUMBERS	1 "			
	53	" "		1"	8	TO BE STD. 2"	2 "			
	54	" "		"	3	GOTHIC NUMBERS.	4 "			
	55	" "		"	4		6 "			
	56	" "		"	7		8 "			
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 62—PILOT AND SNOW PLOW								
	1	Pilot								
	2	" Band								
	3	" Brace								
	4	" "								
	5	" Bottom Plate								
	6	" Bracket								
	7	" Corner Iron								
	8	" Knee								
	9	GROUP 63 - PIPE FITTINGS + CLAMPS								
	10	PIPE CLAMP 1¼"	7	850-A-11	WRIGHT. ILL-RY. EQUIPT CO. # 3691 ORD.					
	11	" " ¾	3	" "	" " " " - # 045 "					
	12	" " ¾" x 1¼"	1	" "		560-5-701				
	13	Snow Plow								
16	14	PIPE CLAMP U-BOLT ⊗	2	644-~~B~~-~~52~~		63-H-33				
	15	" "	1	" "		63-J-63				
16	16	REV. VALVE CLAMP U-BOLT ⊗	1	" "		63-D-33				
	17	" " " BRKT.	1	" "		63-E-7				
	18	PIPE SUPPORT	2	" "	3"x3"x⅜"x8" ANGLES					
	19	" "	1	" "		63-D-202				
	20	" CLAMP	~~1~~	"	LOCATE TO SUIT	~~63-J-63~~				
	21	**GROUP 63—PIPE FITTINGS AND CLAMPS**								
	22	Box Cooler Hose								
	23	" " Fitting								
	24	" " " Nut								
	25	" " " Swivel								
	26									
	27	PIPE CLAMP	1	649-A-69		63-L-6				
	28	Pipe Clamp	3	649-A-69		63-A-46				
	29	" "	~~1~~ 2	" "	LOCATE TO SUIT SHOP	63-M-63				
	30	" "	1	" "		63-B-96				
	31	" "	3	632-F-677		63-B-96				
	32	" Hanger	3	649-A-69	2"x2"x¼" ANGLES					
	33	" "	1	" "	LOCATE TO SUIT SHOP	63-H-7				
	34	" "	3	632-F-677		63-A-24				
7	35	" " ⊗	1	850-A-11		63-F-220				
7	36	" ~~Manifold Air Brake~~ ⊗	1	" "		63-H-220				
	37	" "	1	644-~~B~~-52		63-J-220				
	38	" " ~~Support~~	1	649-A-69		63-A-288				
	39	" " "								
7	40	ANGLE COCK HOLDER ⊗	1	632-B-883	¼"x6"x½" ANGLE CUT AS SHOWN					
	41	Water Joint Support								
16	42	PIPE CLAMP U-BOLT ⊗	1	850-A-11		63-A-233				
16	43	" " " ⊗	1	" "		63-B-98				
16	44	" " " ⊗	1	644-~~B~~-52		63-E-233				
16	45	" " " ⊗	1	649-A-69		63-D-233				
	46	" "	1	644-B-52		63-M-6				
16	47	" " (CONVOY GR. LINE) ⊗	1	—	BEGIN WITH (17)	63-F-233				
	48	" " SUPPT (" " ")	1		2½"x3"x⅜" ANGLE 4" LONG WELD TO CONVOYERS.					
	49									
	50	**GROUP 64—PIPING ARRANGEMENTS**								
7	51	Piping Arrangement AIR BRAKE		850-A-11	EXTRA CLAMPS DRILLING TO SUIT SHOP					
	52	" " BET. ENG. + TENDER		640-A-90	ALL FILLER BLOCK TO SUIT SHOP					
7	53	Sprinkler Piping		649-A-69	RAIL. PIPE ORD.					
8	54	" PIPE FLANGE ⊗	1	642-A-85				64-1		
	55	Steam Heat Piping								
7	56	STOKER ENG. PIPING		644-~~B~~-52	EXTRA. CLAMP + DRILLING TO SUIT SHOP					
	57	Coal Pusher Piping								
	58	STOKER ENG. EXHAUST PIPE FLANGES	1-SET	644-~~B~~-52	ORD.					
8	59	SPRINKLER HOSE ~~SLEEVE~~ ⊗	1	649-A-69					STICK	
8	60	" " " NOZZLE ⊗	1	" "					"	
	61	" " " SHIELD.	1	" "	1½" PIPE BENT AS SHOWN + WELD TO TANK					

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 66—PLUGS, HANDHOLES AND WASHOUTS								
7	1	WASHOUT PLUGS (TENDER FRAME) ⊗	2		2½" AT POINT 12 THDS. TAPER 1½" IN 12" PRIME MFG. CO. ORD.					
	2									
	3									
	4									
	5									
	6									
	7									
	8									
	9	**GROUP 71—RUN'G BOARDS & BRACK'TS**								
	10	Running Board								
	11	" "								
	12	" " Bracket								
	13	" " "								
	14	" " "								
	15	" " "								
	16									
	17									
	18									
	19									
	20									
	21	**GROUP 73—SAND BOX AND RIGGING**								
	22	Sand Box								
	23	" " Brace								
	24	" " Handle								
	25									
	26									
	27									
	28									
	29	**GROUP 76—SPRINGS**								
7	30	Truck Spring ⊗	12	762-B-210 ORD	—	—	—	—	—	—
7	31	" " COIL ⊗	8	762-A-214 ORD	—	—	—	—	—	—
	32	" " Clip								
	33	" " End Block								
	34	Buffer Spring								
	35	Coupler Spring								
	36	Draw Spring								
	37	" "								
	38	Water Scoop Spring								
	39	" " "								
	40	Brake Beam Leveling Spring								
	41									
	42									
	43									
	44									
	45									
	46	**GROUP 80—STOKER AND DETAILS**								
8	47	STOKER REVERSE VALVE ROD. ⊗	1	802-A-60		802-A-60				
8	48	" " " HANDLE ⊗	1	802-B-60		802-B-60				
8	49	" " " FULCRUM ⊗	1	802-C-60			80-167			
8	50	" " " QUAD. ⊗	1	802-D-50			80-168			
7	51	" ENGINE BLOCKS (OUTSIDE) ⊗	2	80-A-11	2"×4½"×6½" AN. TOP & BOT. WELDED TO FRAME					
7	52	" " " (INSIDE) ⊗	2	" "	2"×4"×6½" " " " " " " " & PLATE					
8	53	" REV LEVER LATCH PIN ⊗	1.	—	WITH ABOUT 12" OF ⅛" FIRE DOOR CHAIN	60-A-39				
	54	" COCK EXT. HANDLE	1	6HH-B-52		80-A-11				
	55	" " " " BRKT.	1	" "		80-A-12				
	56									
	57									
	58									
	59									
	60									
	61									

(Group 80 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 80—STOKER AND DETAILS (Cont.)								
	1									
	2									
	3									
	4									
	5	TANK VALVE HOSE CLAMPS	2	822-D-162	—	—	—	82-460		
	6									
	7									
	8									
	9									
	10									
	11									
	12									
	13									
	14									
	15									
	16									
	17	GROUP 82 TANK VALVES + COCKS								
8	18	BOX COOLER TAP CAP	Ø 12	822-A-164	—	—	—	—	STICK	—
8	19	" " FITTING IN TRUCK BOX	Ø 12	822-B-164	—	—	—	—	STICK	—
8	20	" " STAND PIPE	Ø 3	822-C-164	3/4" EX HEAVY PIPE	—	—	—	—	—
8	21	" " " "	Ø 1	822-D-164	" " "	—	—	—	—	—
8	22	" " HOSE SLEEVE	Ø 8	822-E-164	—	—	—	—	STICK	—
8	23	" " " NUT	Ø 8	822-F-164	—	—	—	—	STICK	—
7	24	" " " SUPPORT	Ø 6	822-A-163	—	822-A-163 (4)	—	—	—	—
7	25	" " " "	Ø 1	822-B-163	—	822-B-163 (4)	—	—	—	—
7	26	" " " "	Ø 1	822-C-163	—	822-C-163 (4)	—	—	—	—
	27	" " " ARRGT	0	822-C-162	SEE NOTE	—	—	—	—	—
	28	" " " "	0	822-D-162	" "	—	—	—	—	—
	29									
	30									
	31									
	32									
	33									
	34									
	35									
	36									
	37									
	38									
	39									
	40									
	41									
	42									
	43									
	44	**GROUP 82—TANK VALVES AND COCKS**								
12 ✓	45	Tank Valve ~~Body~~ ARRGT	Ø 2	822-A-166	4" POWELL ORD	—	—	—	—	—
8	46	" " ~~Body~~ PLATE	Ø 2	"	" 5/8 PLATE 7/14" DIA.					
	47	" " Seat								
	48	" " Shaft								
	49	" "								
	50	" " Rod								
	51	" " Lift								
	52	" " Handle								
	53	" " Gland								
8	54	" " Goose Neck . L.S.	Ø 1	822-A-168						82-475-A
8	55	" " ~~Nut~~ " R.S.	Ø 1	822-A-167						82-485
	56	" " Sleeve								
	57	" " Hose ~~Nut~~ CLAMPS	2	822-B-142	—	—	—	82-460		
	58	" " " Swivel								
	59	Tank Valve Flange								
	60	" " "								
	61	" " Strainer	0 2	822-B-120	GALV. WIRE NETTING 3"x3" MESH. .06 WIRE ORD.					

(Group 82 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 82—TANK VAL. AND COCKS (Cont.)								
	1	Tank Well								
	2	" " Plug								
	3	" Syphon								
	4	" " Pipe Support								
	5	" " Brace								
	6									
	7									
	8	TANK TRY COCK ARRGT		822-A-158	—	—	—	—	—	—
8	9	~~Oil Tank Plug~~ " " " BODY	Ø 1	" "	—	—	—	—	82-481 (2)	—
8	10	" " ~~Valve~~ " " " PLUG	Ø 1	" "	—	—	—	—	82-96 (2)	—
8	11	" " " ~~Seat~~ " " NUT	Ø 1	" "	—	—	—	—	HEX	—
8	12	" " " ~~Rod~~ " " " WASHER	Ø 1	" "	—	—	—	—	STICK	—
8	13	" " " ~~Arm~~ " " " PIPE	Ø 1	" "	1" PIPE BOSSES / MOLDED AS SHOWN		—	—	—	—
8	14	" " " ~~Gland~~ " " " ROD NUT	Ø 1	" "	—	—	—	—	82-99 (2)	—
8	15	" " " ~~——~~ " " " GLAND	Ø 1	" "	—	—	—	—	STICK	—
8	16	" " " ~~Nut~~ " " " STUFF BOX	Ø 1	" "	—	—	—	—	82-480 (2)	—
8	17	" " " ~~Sleeve~~ " " " NUT	Ø 1	" "	—	—	—	—	82-98 (2)	—
8	18	" " " ~~Drain~~ TRY COCK ROD	Ø 1	822-J-119	—	82-D-52 (4)	—	—	—	—
8	19	" " " " ~~Seat~~ " " ROD HANDLE	Ø 1	" "	—	—	—	—	82-107 (2)	—
	20	" " " Stuffing Box								
	21	" " " " " Nut								
	22	" " " " " Gland								
	23	" " " Rod End								
	24	" " Measuring Rod								
	25	~~Oil Tank Cock~~ BOX COOLER COCK ARRGT	Ø	822-C-162	SEE NOTE	—	—	—	—	—
	26	" " " ~~Cap~~ " " " "	Ø	822-D-162	" "	—	—	—	—	—
	27	" " " Plug								
	28	" " " Nut								
	29	" " " Washer								
8	30	TANK COCK ~~Handle~~ ROD NUT	Ø 1	823-A-45	—	—	—	—	82-99 (2)	—
8	31	Tank Cock BODY	Ø 1	" "	—	—	—	—	82-100 (2)	—
8	32	" " Plug	Ø 1	" "	—	—	—	—	82-96 (2)	—
8	33	" " Nut	Ø 1	" "	—	—	—	—	HEX	—
8	34	" " Washer	Ø 1	" "	—	—	—	—	STICK	—
8	35	" " Handle	Ø 1	822-H-119	—	—	—	—	82-107 (2)	—
8	36	" " Flange	Ø 1	823-A-45	—	—	—	—	82-95 (2)	—
8	37	" " Rod	Ø 1	822-H-119	—	82-C-52 (4)	—	—	—	—
8	38	" " Stuffing Box	Ø 1	823-A-45	—	—	—	—	82-480 (2)	—
8	39	" " " " Gland	Ø 1	" "	—	—	—	—	STICK	—
8	40	" " " " Nut	Ø 1	" "	—	—	—	—	82-98 (2)	—
8	41	Box Cooler Valve BODY	Ø 4	822-A-161	—	—	—	—	82-483 (2)	—
8	42	" " " ~~Cap~~ PLUG	Ø 4	" "	—	—	—	—	82-482 (2)	—
8	43	" " " ~~Stem~~ NUTS	Ø 8	" "	—	—	—	—	HEX	—
8	44	" " " ~~Gland~~ WASHERS	Ø 4	" "	—	—	—	—	STICK	—
	45	" " " Nut								
	46	" " " Handle								
	47	" " " Coupling Nut								
	48	" " " Swivel								
	49									
	50	**GROUP 84—TENDER BRAKE**								
7	51	Frame Body Brake Arrangement * DETAILS I-SET	(4)	A.S.F. 81682	ORD	—	—	—	—	—
	52	Body Brake Lever								
	53	" " "								
7	54	" " " -Support	(4) 6	842-D-102	—	842-D-102 (4)	—	—	—	—
	55	" " " "								
	56	" " Connecting Rod								
	57	" " " "								
	58	" " Equalizer								
	59	" " Fulcrum								
	60	" " Rod								
	61	" " Clevis								

(Group 84 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 84—TENDER BRAKE (Cont.)								
	1	Body Brake Sheave								
	2	" " " Support								
	3	" " Shaft								
	4	" " " Cap								
	5	" " " Hanger								
	6	" " " Step								
	7	" " " Wheel								
	8	" " " Handle								
	9	" " " Pawl								
	10	" " " " Plate								
	11	" " " Ratchet								
	12	" " " Weight								
7	13	" " Cylinder	⊗ 1	A.S.F. PRINT 81682	18"x12" TYPE J PASSENGER BRAKE CYLINDER					—
	14	" " " Head								
	15	" " " "								
	16	" " " Support								
7	17	" " Pins	⊗ 1-SET	A.S.F. ORD	—	—	—	—	—	—
	18	" " "								
	19	" " "								
	20	" " "								
	21	Tender Brake Piston								
	22	" " " Follower								
	23	" " " Ring								
	24	" " " Rod								
	25	Brake Reservoir Hanger								
	26	" " Strap								
	27	Hand Brake Arrangement								
	28	" " Rod								
	29									
	30									
	31									
	32									
	33									
	34									
7	35	Truck Brake ARRGT & DETAILS	⊗ 1-SET	A.S.F. PRINT 81685	ORD	—	—	—	—	—
	36	" " Beam								
7	37	" " " SAFETY HANGERS	⊗ 8	842-D-57	—	842-D-57	⊗ —	—	—	—
7	38	" " " " "	⊗ R L 2 2	842-C-78	—	842-C-78	⊗ —	—	—	—
7	39	" " " Support "	⊗ R L 2 2	842-D-78	—	842-D-78	⊗ —	—	—	—
	40	" " " Safety Chain								
	41	" " " " Bar								
	42	" " " Leveling Eyebolt								
	43	" " Head								
7	44	" " Shoe	⊗ 24	A.B.S.&F.Co	DIAMOND 5½" UNFLANGED STEEL BACK ORD				—	—
7	45	" " " Key	⊗ 24	A.R.A ORD	—	—	—	—	—	—
	46	" "								
	47	" " Lever								
	48	" " " Guide								
	49	" " Dead Lever								
	50	" " " " Anchor								
	51	" " " " " Lug								
	52	" " Lever Rod								
	53	" " " "								
7	54	" " Pins	⊗ 1-SET	A.S. FORY	ORD	—	—	—	—	—
	55	" " "								
	56	" " "								
	57									
	58									
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 85—TENDER FRAME								
	1	Frame	1	850-A-11	GENL STEEL CSTG. CO. #21907-D. ORD.	—	—	—	—	—
	2	" Center Sill								
	3	" Side Sill								
	4	" End Sill								
	5	" Corner Angle								
	6	" " Bracket								
	7	" " Knee								
	8	" Brace								
	9	" "								
	10	" "								
	11	" Filling								
	12	" "								
	13	"								
	14	" Bolster								
	15	" " Angle								
	16	" " Plate								
	17	" " Truss Bar								
	18	" " " Brace								
	19	" " " Plate								
	20	" "								
	21	" " Tie Plate								
7	22	" Center Plate Ⓐ	1	860-A-11	GENL STEEL CSTG CO #21907 ORD.	—	—	—	—	—
7	23	" Side Bearing WEARING PLATE Ⓑ	4	" "	1/2"x4 1/8"x16 1/2" WELDED TO FRAME					
	24	" " "								
	25	Push Pole								
	26	" " Collars								
	27	" " Pocket								
	28	" " Support								
	29	" " Stop								
7	30	Wrecking Frog Brackets Ⓒ	2	852-A-70	COMPLETE	852-A-70 (2)	—	—	—	—
7	31	Switch ~~Rope~~ CHAIN Hooks Ⓓ	1	860-A-11		85A-33				
	32	Check Chain	—							
	33	" " Pocket	—							
	34	" " Hook	—							
	35	Tender Floor	—							
	36	" " Edge	—							
	37	Bumper—Front	—							
	38	" —Back	—							
	39	Tender Floor Anchor	—							
	40									
	41									
	42									
	43									
	44									
	45									
	46									
7	47	**GROUP 86—TENDER DRAWGEAR** Ⓔ	1	863-A-86	WAUGH GOULD #403 ORD	—	—	—	—	—
7	48	Coupler Ⓕ	1	" "	NATL MALL + STEEL CSTG. CO #21216 A ORD	—	—	—	—	—
7	49	" Pocket WEARING PLATE Ⓖ	1	" "	—	1/2"x3 1/2"x11" PLATE (4)	—	—	—	—
7	50	" Followers Ⓗ	1	" "	—	2 1/4"x9"x12 1/2" PLATE (5)	—	—	—	—
7	51	" Yoke Ⓘ	1	" "	BUCKEYE PRINT #B-3343 A ORD		—	—	—	—
	52	" " Filler	—							
	53	" Follower Guide	—							
	54	" Carry Iron	—							
	55	" Chain	—							
	56	" " Clevis	—							
7-10-16	57	Drawbar Pin Ⓙ	1	862-E-73	MATL. ORD	862-E-73 (1)	—	—	—	—
7	58	" " SUPPORT Ⓚ	1	372-M-10	3/4" PLATE	372-M-10 (3)	—	—	—	—
	59	~~Safety Chain Pin~~ FLAT SPLIT KEY Ⓛ	4	—	TO SUIT					
7	60	Draft Gear ~~Check Casting~~ KEY RETAINER	1	862-D-66	—	862-D-66 (11)	—	—	—	—
7	61	" " Key Ⓜ	1	862-A-90	—	862-A-90 (9)	—	—	—	—

(Group 86 Continued)

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 86—TENDER DRAWGEAR (Cont.)								
1	1	Draft Gear Carrier ⊗	1	863-A-86	3/4" x 14 1/2" x 24" PLATE	④ —	—	—	—	
	2	Drawhead Brace								
1	3	Uncoupling Shaft COMPLETE ⊗	1	862-A-89	UNION METAL PRODUCTS CO. ORD		—	—	—	
1	4	" " ~~Arm~~ LOCK LIFTER ⊗	1	" "	" " "	" "	—	—	—	
1	5	" " Bracket OUTSIDE ⊗	2	862-A-88	" " "	" "	—	—	—	
1	6	" " " " INSIDE ⊗	1	862-C-88	" " "	" "	—	—	—	
1	7	" " ~~Handle~~ FILLERS ⊗	4	862-B-88	" " "	" "	—	—	—	
	8	" " Cap								
1	9	DRAFT GEAR KEY WASHER ⊗	1	863-A-86	—	86-A-91 ④	—	—	—	—
	10	Draw Casting—Front								
	11	" " —Back								
	12	Safety Chain								
	13	" " Clevis								
	14	" " Staple								
	15	" " Washer								
	16									
1	17	Chafing Casting ⊗	1		FRANKLIN RY SUPPLY CO ORD		—	—	—	
	18	" Iron								
	19	Spring Buffer								
	20	" " Case								
	21									
	22									
	23									
	24									
	25									
	26									
	27									
	28									
	29									
	30									
	31									
	32									
	33									
	34	**GROUP 87—TENDER DECK AND TOOL BOX**								
1	35	Tender Deck	1	878-A-11	ANGLE PLATE & BARS ORD.					
	36	" " ~~Shovel~~ SLIDE Plate	1-SET	" "	3/8" PLATE ORD.					
	37	" " Support, Outside	1-R 1-L	" "	3/8" " + ANGLE					
	38	" " " Inside	5-R 5-L	" "	3"x3"x1/2" ANGLES					
	39	" " SLOPE SHEET SUPPORT	1	" "	1/2" BENT PLATE TO SUIT SHOP					
	40	" " " " " HANGERS-2	" "	" "	6" EX. HEAVY T ORD.					
1	41	Tool Box ⊗	1	873-A-29	#11 GA. STEEL PLATE	—	—	—	—	—
	42	" " LATCH	1	" "	—	87-A-63 ④	—	—	—	—
	43	" " ~~Handle~~ " GUIDE	1	" "	—	87-A-64 ④	—	—	—	—
	44	" " — " "	1	" "	—	87-A-65 ④	—	—	—	—
	45	" " ~~Brace~~ " "	1	" "	—	87-A-66 ④	—	—	—	—
1	46	" " SUPPORT ⊗	2	872-A-55	—	872-A-55 ④	—	—	—	—
1	47	" " " ⊗	4	872-B-55	—	872-B-55 ④	—	—	—	—
	48	" Closet Hinge	2	880-A-30	6" EX HEAVY STRAP ORD		—	—	—	—
16	49	" " " ~~Lug~~ EYEBOLT ⊗	#2	" "		470-S-213 ④	—	—	—	—
	50	" " HASP	1	" "	6" EXTRA HEAVY HASP ORD		—	—	—	—
	51	TENDER CONVOYER ANGLE SUPPORT	1-R 1-L	878-A-11	4"x3 1/2"x3/8" ANGLE ORD.					
	52	" " SUPPORT BARS	1-SET	" "	3/4"x4"x32 1/4"					
	53	Water Cooler	1	872-A-59	GALV. IRON ORD. N.P.D.					
	54	" " ~~Base~~ HINGES	2	" "	3" TEE ORD.					
	55	" " ~~Top~~ KNOB	1	" "	1" PORCELAIN SHUTTER KNOB. ORD.					
	56	" " Lid								
	57	" " Casing	1	" "	WOOD. LOCATE & FASTEN TO SUIT INSPECTOR					
	58	" " Cock	1	" "	3/8" CRANE #800 ORD.					
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 88—TENDER TANK								
	1	Tank—Water	1	880-A-30	2350 0 GALLON	—	—	—	—	—
	2	" Material Bill		88 M0113 A	—	—	—	—	—	—
	3	" ~~Brace~~ RIVETS		88 M0114	—	—	—	—	—	—
	4	" ~~Knee~~ COAL. PICK HOOK	1	882-D-99		882-D-99				
	5	" ~~Lifter Iron~~ FIRE RAKE HOOK	1	~~880-A-30~~ ~~882-C-92~~		~~88-A-H5~~ 168 ~~882-D-92~~				
	6	" Drain Pipe	2	880-A-30	3" Ex Hvy. PIPE ORD	—	—	—	—	—
8	7	" " " Flange Ⓧ	4	882-A-62	—	—	88-33 Ⓓ	—	—	—
	8	" FIRE RAKE HOOK	1	~~880-A-30~~ ~~882-B-92~~		~~88-A-H6~~ 169 ~~882-B-92~~				
	9	" ~~Fuel Rack~~ GRATE SHAKER LEVER BRKT.	1	882-E-99		882-E-99				
	10	" Tool Hook " " "	1	882-F-99		882-F-99				
	11	" ~~Lug~~ FRY COCK DRAIN POCKET	1	822-A-165	1/8" PLATE WELDED TO TANK FRAME					
	12	" "								
	13	" Funnel	1	884-B-11	1/4" PLATE ORD	—	—	—	—	—
	14	" " Lid	4	"	3/16 "	"	—	—	—	—
8	15	" " Hinge Ⓧ	8	882-A-107	—	—	—	88-128 Ⓓ	—	—
8	16	" " " Lug Ⓧ	8	" "	—	—	—	88-129 Ⓓ	—	—
8	17	" " Handle Ⓧ	4	882-A-1	—	—	—	88-8 Ⓓ	—	—
	18	" " Screen								
	19	" Coal Gate	1	883-A-~~62~~ 67	1 1/2" x 10" OAK PLANK ORD.					
	20	Coal Gate Angle	2	" "	2 1/2" x 2 1/2" x 3/8"					
8	21	" " ~~Catch~~ POCKET Ⓧ	2	" "						
8	22	" " ~~Latch~~ " Ⓧ	~~12~~ 10	" "				88-31		
16	23	" " ~~Hinge~~ BOLTS Ⓧ	1 SET	" "				88-30		
	24	" " " Lug								
	25	" " Chain	~~5~~ 4	882-~~A~~-8	WITH ONE BRKT & 48"-1/4" STD. COM.-CHAIN ORD.	882-~~A~~-8				
16	26	" " Eyebolt Ⓧ	~~5~~ 4	" "	ONE END OF CHAIN ATTACH TO EYE BOLT	~~4~~ 2				
8	27	" " Slide Clamp	~~8~~ 2	883-A-~~62~~ 67		88-A-8				
	28	" " Catch Bracket								
	29	" " Handle	2	883-A-~~62~~ 67		88-A-3				
	30	TANK PAIL HOOK	1	823-A-45	—	470-5-05 Ⓓ	—	—	—	—
	31	Tank Cut Out for Stoker								
	32	" CONTROL CONDUIT CASING	1	880-A-30	3" EX. Hvy. PIPE ORD	—	—	—	—	—
8	33	" " " " FLANGE Ⓧ	2	882-A-62	—	—	88-33 Ⓓ	—	—	—
	34	Tank ~~Oil~~ CAB - CURTAIN ARRGT		234H-29						
16	35	" ~~Material Bill~~ " EYEBOLTS Ⓧ	4	" "		23-A-392				
	36	" ~~Brace~~ SPRINKLER RESERV SUPPT	1	880-A-30	—	63-B-119				
	37	" Lifter Iron								
	38	" ~~Lug~~ SLOPE SHEET STEP	3	882A-113	1/2" PLATE	Ⓓ				
	39	" " " " "	2	882-B-113	1/2" PLATE	Ⓓ				
	40	" ~~Funnel~~ TOOL CLOSET LATCH	1	880-A-30	LAST 30 TENDERS	470-5-324				
	41	" " Lid								
	42	" " Hinge								
	43	" " " Lug								
	44	" " Screw								
	45	" " Handle								
	46	" " Gasket								
	47	" " Screen								
	48	" WATER SPOUT (HOOK SUPPORT)	2	880-A-30	HELD TO FRAME	88-B-111				
	49	WATER SPOUT HOOK	1			88-A-112				
	50	Coal Pusher								
	51	STOKER ENG. COMP. DOOR ARRGT.		883-B-51						
	52	" " " " LATCH LUG	2	" "		88-A-143				
8	53	" " " " " " Ⓧ	2	" "		88-A-149				
8	54	" " " " " Ⓧ	1	" "		88-B-160				
	55	" " " " HANGERS	3	" "	1/4" EX. HEAVER BUTT. ORD.					
8	56	" " " " LATCH HANDLE Ⓧ	1	732-B-4				73-72		
8	57	" " " " HANDLE FRAME Ⓧ	1	882-A-102					88-126	
	58	" " " " "	1	" "		88-A-159				
	59									
	60									
	61									

Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 89—TENDER TRUCK								
1	1	Truck 7"x14" Ⓓ	2	GENL. STEEL CSTG CO 21561-AE	GENL STL ORD	—	—	—	—	—
	2	" Arch Bar	—							
	3	" Truss Bar	—							
	4	" Tie Bar	—							
	5	" Columns	—							
	6	" "	—							
1	7	" Bolster Ⓓ	2	G.S.C.CO 21804-A	GENL STEEL ORD	—	—	—	—	—
	8	" " Guide	—							
	9	" " Bar	—							
	10	" " Cap	—							
	11	" " Truss Rod	—							
	12	" " " " Washer	—							
1	13	" Center Plate Ⓓ	2	G.S.C.CO 21804	GENL STEEL ORD.	—	—	—	—	—
1	14	" King Bolt Ⓓ	2	892-F-88	—	892-F-88	—	—	—	—
	15	" " " Keys	—							
	16	" Spring Plank	—							
1	17	" " Seat—Top Ⓓ	8	G.S.C.CO 21561 C	PLATE 3/8" x 8½" DIA WITH 3"x5" SLOT	—	—	—	—	—
1	18	" " " —Bottom Ⓓ	8	892-C-80	—	—	—	89-226A Ⓓ	—	—
1	19	" " Hanger END Ⓓ	8	892-A-138	DROP FORGED ORD	—	—	—	—	—
1	20	" " " Ⓓ	16	892-B-138	" " "	—	—	—	—	—
	21	" " " Gib	—							
1	22	" Side Bearing ARRGT. Ⓓ	—	892-A-142	½" CLEARANCE F.&B.					
1	23	" " " Block Ⓓ	4	G.S.C.CO	16"x4"x1½" OT TO SUIT CLEARANCE					
1	24	" Frame Ⓓ	2	21803-E	GENL STEEL ORD	—	—	—	—	—
	25	" " Brace	—							
	26	" " Crosstie	—							
	27	" Pedestal	—							
	28	" "	—							
1	29	" " Cap ~~Hold~~ Ⓓ	~~4~~ 12	G.S.C.CO 21561-AE	—	89-F-9 ✓	—	—	—	—
	30	" " " ~~Tie~~ ~~Hold~~	~~8~~	" "	—	~~89-B-24~~	—	—	—	—
1	31	" Equalizer Ⓓ	8	G.S.C.CO 21814 B	GENL STEEL ORD	—	—	—	—	—
1-12	32	" SWING LINK PINS TOP Ⓓ	8	892-A-141	CASE HARDENED	892-A-141 ④	—	—	—	—
	33	" Swing Frame	—							
~~1-IV~~	34	" " Link Ⓓ	8	892-C-125	MATL ORD	892-C-125 ④	—	—	—	—
1-IV	35	" " Pins BOTTOM Ⓓ	8	892-B-141	CASE HARDENED	892-B-141 ④	—	—	—	—
1	36	" Check Chain Ⓓ	8	892-A-139	1" CHAIN ORD	892-A-139 ④	—	—	—	—
	37	" " " Bolt	—							
	38	" " " Clevis	—							
	39	" " " Pocket	—							
1-IV	40	" SWING LINK BUSHING Ⓓ	16	G.S.C.CO 892-C-125	CASE HARDENED MATL ORD	—	—	—	—	—
1	41	" CENTER PLATE SHIMS Ⓓ	4	G.S.C.CO 21561-AE	½" x 20¾" x 26¼" PLATE ORD	④ —	—	—	—	—
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Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 90—TENDER WATER SCOOP								
	1	Water Scoop	—							
	2	Scoop Cylinder	—							
	3	" " Head	—							
	4	" " "	—							
	5	" " Gland	—							
	6	" " Support	—							
	7	" " "	—							
	8	" Piston	—							
	9	" " Follower	—							
	10	" " Rings	—							
	11	" " Rod	—							
	12	" " " Jaws	—							
	13	" " " Extension Links	—							
	14	" Inside Pipe	—							
	15	" Outside Pipe	—							
	16	" Air Pipe Casing	—							
	17	" Neck	—							
	18	" Splash Hood	—							
	19	" Dipper	—							
	20	" " Link	—							
	21	" " Lifter	—							
	22	" " Nose	—							
	23	" " Shield	—							
	24	" " " Brackets	—							
	25	" Shaft	—							
	26	" " Fulcrum	—							
	27	" Bell Crank	—							
	28	" Arm	—							
	29	" Spring Cap	—							
	30	" " Rod	—							
	31	" " Seat	—							
	32	" " " Support	—							
	33	" Jaws	—							
	34	" Rods	—							
	35	" Lever	—							
	36	" Link	—							
	37	" Bracket	—							
	38	" Brace	—							
	39	" Pipe Hanger	—							
	40	" Joint Piece	—							
	41	" " " Trunion Cap	—							
	42	" " " " "	—							
	43	" " " Lifting Links	—							
	44	" " " " "	—							
	45	" Delivery Pipe Hanger	—							
	46	" " " " Clamp	—							
	47	" " " " Clips	—							
	48	"								
	49	"								
	50	" Operating Valve	—							
	51	" " " Cap	—							
	52	" " " Plug	—							
	53	" " " Nut	—							
	54	" " " Handle	—							
	55	" " " Quadrant	—							
	56	" " " Spring	—							
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Check	Item	TITLE	No. Pcs.	DRAWING Card No.	DRAWING Construct'n Notes	FORGINGS Sketch No.	CASTINGS—PATTERN NUMBERS Cast Iron	Cast Steel	Brass	Mal. Iron
		GROUP 95—WHEELS AND TIRES								
7	1	Truck Wheel 36" ⊗	12	AM Rolling Mills Pt		W-332 ORD.	—	—	—	—
	2	Wheel Pressed on Axle (Tons)								
	3	Wheel Center	—							
	4	" Tire	—							
	5	Tire Retaining Ring	—							
	6	Wheel Numbers								
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Check	Item	TITLE	No. Pcs.	DRAWING		FORGINGS	CASTINGS—PATTERN NUMBERS			
				Card No.	Construct'n Notes	Sketch No.	Cast Iron	Cast Steel	Brass	Mal. Iron

Material Specifications

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